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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,935	02/03/2006	Akihiko Nishio	L9289.05198	8746
52989 Dickinson Wrig	7590 11/10/200 ht PLLC	EXAMINER		
James E. Ledbetter, Esq. International Square 1875 Eye Street, N.W., Suite 1200 Washington, DC 20006			HSIEH, PING Y	
			ART UNIT	PAPER NUMBER
			2618	
			MAIL DATE	DELIVERY MODE
			11/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/562,935	NISHIO, AKIHIKO			
		Examiner	Art Unit			
		PING Y. HSIEH	2618			
Period fo	The MAILING DATE of this communication apports. The MAILING DATE of this communication apports.	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on 25 A	wayst 2008				
·	Responsive to communication(s) filed on <u>25 August 2008</u> . This action is FINAL . 2b) This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٥/١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
· · ·	on of Claims					
-	Claim(s) <u>27-32</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
6)⊠	S)⊠ Claim(s) <u>27-32</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/o	or election requirement.				
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
•	The drawing(s) filed on is/are: a) ☐ acc		Examiner.			
<i>,</i> —	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Claims 27-32 are pending.

Claims 1-26 are cancelled.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 27-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li et al. (U.S. PG-PUB NO. 2002/0119781) in view of Parantainen et al. (U.S. PATENT NO. 7,092,373) and further in view of Kage (U.S. PATENT NO. 5,463,672).
 - -Regarding claims 27 and 30, Li et al. disclose a base station comprising an allocation unit configured to allocate a resource to be used by a mobile station (upon receiving the feedback from a subscriber, the base station further selects one or more clusters for the subscriber among the candidates as disclosed in paragraph 43); a modulating unit configured to modulate first

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allocation information indicating the resource (Orthogonal Frequency Division Multiplexing (OFDM) is an efficient modulation scheme for signal transmission over frequency-selective channels as disclosed in paragraph 2); and a transmitting unit configured to transmit the modulated first allocation information (the base station notifies the subscriber about the cluster allocation through a downlink common control channel as disclosed in paragraph 44 and 81). However, Li et al. fail to specifically disclose the resource is to be used for transmitting an ACK/NACK signal in response to user data transmitted by the base station.

Parantainen et al. disclose the base station transmits information on the uplink channel to be used for acknowledgements as disclosed in fig. 4.

Therefore, it would have been obvious to one of ordinary skills in the art at the time of invention to modify allocated resource of Li et al. to be used for transmitting an ACK/NACK signal. One is motivated as such in order to make sure the data is successfully transmitted. However the combination fails to specifically disclose a second allocation information indicating a destination of the user data; and simultaneously transmit the first allocation information and the second allocation information.

Kage discloses each base station is constantly broadcasting the base station identifier on a control channel as disclosed in col. 5 lines 19-24.

Therefore, it would have been obvious to one of ordinary skills in the art at the time of invention to modify the base station to simultaneously transmit the

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cluster allocation and base station identifier through the control channel. One is motivated as such in order to accelerate the communication by reducing the number of transmissions.

-Regarding claims 28 and 31, the combination further discloses the resource comprises a subcarrier (Li et al., as shown in fig. 1A and further disclosed in paragraph 37).

-Regarding claims 29 and 32, although the combination does not specifically disclose an encoding unit configured to encode the first allocation information together with the second allocation information, it would have been obvious to one of ordinary skills in the art at the time of invention to do so in order to simultaneously transmit the two information together in a control channel.

Response to Arguments

4. Applicant's arguments with respect to claims 27-32 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PING Y. HSIEH whose telephone number is (571)270-3011. The examiner can normally be reached on Monday-Thursday (alternate Fridays) 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay A. Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/P. Y. H./ Examiner, Art Unit 2618 /Nay A. Maung/ Supervisory Patent Examiner, Art Unit 2618